U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL WEATHER SERVICE
Silver Spring, Md. 20910

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MEMORANDUM FOR: Distribution

FROM: W/OPS1 - John McNulty
W/OPS4 - James Belville

SUBJECT: Revised Transition Power Maintenance System (TPMS) Maintenance Policy

This memorandum revises the scope of organizational efforts required to perform maintenance on the TPMS and Transition Power Source (TPS). This memorandum takes into consideration the recent contract modification to replace the existing rotary TPS with a POWERWARE static uninterruptible power supply. Formal revisions to Engineering Handbooks (EHB) and Weather Service Operations Manuals will be developed to document this policy.

Organizational level maintenance work performed by the site electronics technician includes:

- start/stop TPS operation
- monitoring of TPS operating conditions
- identify a TPS failure to the sector facilities technician

Organizational level maintenance work performed by the sector facilities technician includes:

- environmental control unit maintenance and repair
- electrical wiring and power-related problems
- electric toilet troubleshooting/replacement
- building caulking
- masonry repair of exterior walls
- roof repairs
- remove, check, and replace TPS components, such as fuses or control boards
- troubleshoot TPS using microprocessor built-in-test diagnostics
- TPS preventative maintenance
- routine replacement and disposal of batteries

In the event the TPS goes into bypass, diagnosis and repair will be performed by the sector facilities technician. The electronics technician may provide assessment of the problem, using the front panel indicators to identify operating conditions.

On-site depot level maintenance will be performed by either the Radar Operations Center (ROC) or contractor personnel.

Spares' kits will be provided to each of the sector facilities technicians. Replacement organizational level spare parts will be obtained from the National Logistics Support Center, using established NWS logistics procedures described in EHB-1. Source, maintenance, and recoverability codes have been specified for all parts to determine organizational or depot level repair and failed item disposition or repair. Failed Lowest Repairable Units (LRUs) coded as repairable will be returned to the NRC for repair.

TPS training will be provided to both electronics technicians and sector facilities technicians. This training will be conducted in a variety of forums including:

(1) On-the-job training during TPS installation
(2) Training compact disk supplied by the contractor
(3) Initial classroom training of personnel
(4) Recurring TPS training provided by the contractor, through separate purchase order.

The on-the-job training course will be performed by the contractor. The contractor will provide at least 2 hours of on-site, on-the-job training instruction for up to four persons during installation at each site. The training compact disk will be developed during one of the initial courses and made available to every weather forecast office, regional headquarters, and the NWS Training Center. These compact disks will be used by electronic and facilities personnel.

The contractor will provide classroom training courses with a class size of 10 persons per class at the POWERWARE Training Center, Raleigh, North Carolina. Classroom training will include ROC hotline technicians, NRC technicians, NWS and Keesler Training Center Personnel, Department of Defense radar support personnel (Hill AFB equipment specialists), facilities technicians, and NWS regional equipment specialists to monitor the quality of instruction. Specific course participation will be determined after discussions with the regions and other affected organizations.

Program-specific information for delivery of logistics and maintenance support products (e.g., spares, technical manuals, support equipment, and training) will be provided by the TPMS Contracting Officer's Technical Representative, Roger Hall, OPS42.

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